

OHIO AGRICULTURAL EXPERIMENT STATION
Northwestern Substation, Hoytville, Ohio

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SWEET CORN VARIETY TRIALS - 1958
Hoytville, Ohio

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OHIO AGRICULTURAL EXP. STATION
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In the 1958 sweet corn variety trials at Hoytville, 48 varieties were evaluated in single row plots replicated four times. Each plot consisted of twenty-one hills spaced eighteen inches in the row with thirty-six inches between rows. Four kernels per hill were planted by hand jabber on May 15. Stand counts were made at the two-three leaf stage to determine germination and later the seedlings were thinned to two plants per hill permitting a maximum stand of 19,360 plants per acre. Fertilizer at the rate of 100 lbs/A of 5-10-10 was drilled and disced in prior to planting after plowing down approximately 5 tons of manure with 2-year alfalfa sod. One side dressing of 100 lbs./A. of ammonium nitrate was applied with cultivator attachment on June 19. Plants were not sprayed for control of the beetle, corn borer, or corn ear worm. First harvest made on August 19 and last on September 5.

For the yield records only marketable size ears were included, however, some ears damaged by earworm were included, since it was assumed that insects could have been controlled by the use of suitable pesticide treatments.

The symbols and rating system used are as follows:

Average Depth of Kernel: Average length of 3 kernels from center section of 3 ears selected at random from each plot.

Color of Kernel: LY = light yellow, MY = medium yellow, DY = dark yellow;
B = bright, I = intermediate, D = dull.

Ease of Snapping: 1 - very difficult to 5 - easily snapped.

Shanks: 1 - long, over 6 inches to 5 - short 1 inch or less.

Flag Number: 1 - none to 5 - over eight.

Flag Length: 1 - less than 2 inches to 5 - over eight inches.

Tip Cover: 1 - exposed to 5 - long, extending 3 inches or more.

Silk Color: 1 - dark brown to 5 - clear or white.

Husk Color: 1 - light green and dull to 5 - dark glossy green.

Husk Tightness: 1 - loose to 5 - tight.

General Uniformity: 1 - poor to 5 - excellent.

SOURCE OF SEED

<u>Symbol</u>	<u>Source</u>
A ₁	Abbott & Cobb, 4744-46 Frankford Ave., Philadelphia 24, Pa.
A ₂	Associated Seed Growers, New Haven, Conn.
B ₁	W. Atlee Burpee & Co., Huntington Park Ave. at 18th St., Phila. 32, Pa.
F ₁	Ferry-Morse Seed Co., P.O. Box 778, Detroit 31, Mich.
H ₁	Joseph Harris Co., Inc., Moreton Farm, Rochester 11, N.Y.
H ₂	Holmes Seed Co., Canton 2, Ohio
L ₂	Letherman Seed Co., 438 Cleveland Ave. N., Canton 2, Ohio
M ₁	Michael-Leonard Co., 333-355 West 35th St., Chicago 16, Ill.
N ₁	Northrup-King & Co., 1500 Jackson St., N.E., Minneapolis 13, Minn.
R ₁	Robson Quality Seeds, Inc., Hall, N.Y.
R ₂	Rogers Brothers Seed Co., P.O. Box 30, Idaho Falls, Idaho
W ₁	F. H. Woodruff & Sons (Now incorporated with Associated Seed Growers)

GENERAL COMMENTS

The weather during June and July was excessively wet with the mean temperature for June being 3° below normal while July temperatures were normal. The abundant moisture and low temperature resulted in a delay and yet a bunching of maturities (82 days for North Star and 97-98 days for Tendermost and Iochief). All varieties held during the period of usable harvest longer than normal.

The numbers of ears per plant were generally greater than in previous years, and although the increase in tonnage was not proportionate to the increase in numbers of ears the tonnage was slightly above average.

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Row No.	VARIETY AND LOT Number			Source	Days to First Harvest	Marketable Yield/Acre		Average Weight of Ears Unhusked	Average Length of Ears Husked	Average Diameter of Ears Husked	Percent of Ears Having Given Number of Rows of Kernels								Average Depth of Kernel	Color of Kernel	Ear Smut	Ear Worm	Ease of Snapping(1-5)	Shanks (1-5)	Flag Number (1-5)	Flag Length (1-5)	Tip Cover (1-5)	Silk Color	Husk Color (1-5)	Husk Tightness (1-5)	General Uniformity(1-5)
						Dozens of Ears	Weight (Tons)				8	10	12	14	16	18	20	22													
					Doz.	Tons	Lbs.	In.	In.	%	%	%	%	%	%	%	mm		%	%							%				
34	Golden Security	4924F	W1	97	2301	7.4	.53	8.0	1.80	-	-	10	5	45	25	15	--	9.3	LYB	0.0	0.4	3	3	4	3	4	3	3	3	3	
46	Golden Sensation	20706	M1	97	2843	8.9	.52	8.6	1.75	-	-	30	45	15	10	-	-	8.3	LYB	0.7	0.7	3	3	4	3	4	3	3	3	3	
48	NK-199	3052/7	N1	97	1706	5.9	.58	7.4	2.00	-	-	-	-	15	60	20	5	12.3	MY	0.0	2.8	3	3	3	3	3	2	3	3	3	
36	Iochief	46035F	W1	98	2074	6.4	.52	7.9	1.80	-	-	-	5	55	40	-	-	10.3	MYB	0.5	3.5	1	3	3	2	4	3	3	3	3	
45	Longchief	30961	M1	98	2266	8.6	.63	8.3	2.10	-	-	-	-	5	50	35	10	12.7	MYB	0.4	1.7	3	3	3	2	4	3	3	3	3	
33	Asgrow Golden 60	74568	A1	98	2101	8.1	.64	9.1	1.95	-	-	-	20	65	10	5	-	10.3	MYB	0.9	4.6	3	3	4	3	3	3	4	3	3	
37	Victory Golden	44980F	W1	98	2201	7.7	.58	7.9	1.80	-	-	-	10	85	5	-	-	9.0	MYB	0.4	1.2	3	3	4	4	4	4	3	3	4	
40	Victory Chief (E.H. 3952)	4925, OD	W1	98	2539	8.6	.56	7.9	1.85	-	-	5	45	45	5	-	-	11.7	MYB	0.8	1.9	3	3	4	4	4	4	3	3	3	
38	Deep Gold	50831R	W1	98	2458	7.3	.50	7.6	1.90	-	-	-	-	30	40	30	-	11.7	LYB	0.0	1.2	3	4	3	2	4	4	3	3	3	
39	Golden Hybrid 583	50833R	W1	98	2524	8.7	.57	7.4	1.90	-	-	-	-	5	30	45	20	9.7	MYB	1.1	0.4	3	4	3	3	4	4	4	3	3	
32	Surecross	5143	B1	98	1802	5.4	.50	8.6	1.80	-	-	40	30	30	-	-	-	10.0	LYB	1.1	1.6	3	4	4	4	3	4	3	3	3	
44	Yield Cross	20254	M1	99	2627	9.0	.57	10.0	2.00	-	-	-	-	65	35	-	-	11.0	LYB	0.0	0.0	3	3	3	3	4	3	3	3	3	
26	Sixtypak	84690-130	A1	99	2424	7.6	.53	8.7	1.70	-	-	40	60	-	-	-	-	8.7	LYB	0.0	1.6	3	3	4	4	3	2	3	3	3	
47	Calumet	1-145	L1	99	2328	7.8	.56	8.7	1.65	-	-	30	65	5	-	-	-	10.3	MYB	0.0	1.2	3	4	4	4	3	4	4	3	3	
29	Country Gentlemen Hyb.	6262	B1	99	1948	6.3	.54	8.2	1.70				Cogent				12.7	White	1.0	0.5	3	4	3	4	3	4	3	3	2		
41	Victory Golden M.E. Strain	44980F	W1	99	2170	7.6	.59	7.4	1.70	-	-	15	45	25	5	10	-	8.7	LYB	1.8	0.4	3	4	3	3	4	4	3	3	3	
	LSD @ 5%				468	1.7																									

Table 1 (continued)

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